#### **DECLARATION AND POWER OF ATTORNEY**

(Related Application)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

# COMPOSITIONS, KITS, AND METHODS FOR PROGNOSTICATION, DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED DISORDERS AND OTHER DISORDERS

the specification of which is attached hereto and/or was filed on July 28, 2000 as Application No. 09/628,495.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to herein.

I acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

#### FOREIGN PRIORITY APPLICATION(S)

			Priority Claimed [] Yes [] No
(Number)	(Country)	(Day/month/year filed)	
			<b>Priority Claimed</b>
			[] Yes [] No
(Number)	(Country)	(Day/month/year field)	

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional patent application(s) listed below and have also identified below any United States provisional patent application(s) having a filing date before that of the application on which priority is claimed.

#### PROVISIONAL PRIORITY PATENT APPLICATION

		Priority Claimed
60/146,614	July 30, 1999	[X] Yes [ ] No
(Application No.)	(Filing Date)	
·		[   Yes [   No
(Application No.)	(Filing Date)	

I hereby claim the benefit under Title 35, United States Code, Section 120, of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application or in the prior U.S. provisional application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56, which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status)(patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status)(patented, pending, abandoned)

And I hereby appoint the registered attorneys and agents associated with AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P., Customer No. 000570, as my attorneys or agents with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Address all correspondence to Customer No. 000570, namely, AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P., One Commerce Square, 2005 Market Street, Suite 2200, Philadelphia, Pennsylvania 19103. Please direct all communications and telephone calls to GARY D. COLBY, Ph.D., J.D. at (215) 965-1285.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole	
inventor, if any	David White
Inventor's Signature	Na Th
Date	9/00
Residence	Braintree, Massachusetts
Citizenship	U.S.A.
Post Office Address	35 Hollingsworth Avenue; Braintree, MA 02148



PTAS

OCTOBER 31, 2000

PHILADELPHIA, PA 19103

GARY D. COLBY

SUITE 2200

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

AKIN, GUMP STRAUSS IN

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/21/2000

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ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

WHITE, DAVID

DOC DATE: 08/09/2000

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS INC. 75 SIDNEY STREET CAMBRIDGE, MASSACHUSETTS 02139

AKIN, GUMP, STRAUSS, HAUER & FELD, LLP

ONE COMMERCE SQUARE - 2005 MARKET STREET

SERIAL NUMBER: 09628495

PATENT NUMBER:

FILING DATE: 07/28/2000

ISSUE DATE:

SHAREILL COLES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

ORM PTO-1595 (Modified) 31-92

### RECORDATION FORM **PATENT**

09-18-2000



IENT OF COMMERCE ent and Trademark Office

Attorney D cket No.: 10147-16U1

<u> </u>	101458454			
o the Assistant Commissioner of Patents and Trademarks: Please rec	cord the attached original documents or copy thereof.			
. Name of conveying party(ies):  David White  . Nature of conveyance:  X] Assignment [ ] Merger	2. Name and address of receiving party(ies):  Millennium Pharmaceuticals, Inc. 75 Sidney Street Cambridge, MA 02139			
Execution Date: August 9, 2000				
. Application number(s) or patent number(s):				
f this document is being filed together with a new application,	, the execution date of the application is:			
A. Patent Application No.(s): 09/628,495 (filed July 28, 2000)	B. Patent No.(s):			
Additional numbers attached?[ ] Yes [ ] No				
<ol> <li>Name and address of party to whom correspondence document should be mailed:</li> </ol>	6. Total number of applications and patents involved: [1]			
GARY D. COLBY, Ph.D., J.D.  AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.  One Commerce Square - 2005 Market Street - Suite 2200  Philadelphia, PA 19103  Felephone: (215) 965-1200  Direct Dial: (215) 965-1285  Facsimile: (215) 965-1210  E-Mail: gcolby@akingump.com	7. Total fee (37 C.F.R. 3.41) Cal. 1 x \$40.00 = \$40.00  [X] Check enclosed [] Authorized to be charged to deposit account  8. Deposit account number: 50-1017  (Billing No.: )			
DO NOT USE THIS SPACE				
9. Statement and signature To the best of my knowledge and belief, the foregoing information is 15/2000 MTHAI1 00000526 09628495 FC:581 40.00 OP Gary D. Colby, Ph.D., J.D. Name of Person Signing Signature	rue and correct and any attached copy is a true copy of the original document.			
OMB No. 0651-0011 (exp. 4/94)				

#### ASSIGNMENT

WHEREAS, I, David White, a citizen of The United States of America, with a post office address of 35 Hollingsworth Avenue, Braintree, MA 02148, hereinafter generally referred to as "ASSIGNOR", have invented a certain new and useful

## COMPOSITIONS, KITS, AND METHODS FOR PROGNOSTICATION, DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED DISORDERS AND OTHER DISORDERS

for which I have executed a United States patent application, Application No. 09/628,495 filed, July 28, 2000 and

ASSIGNOR authorizes ASSIGNEE or ASSIGNEE's representative to insert the Application Number and Filing date of this application if they are unknown at the time of execution of this Assignment.

WHEREAS, Millennium Pharmaceuticals, Inc., a Delaware corporation having a place of business at 75 Sidney Street, Cambridge, MA 02139, hereinafter generally referred to as "ASSIGNEE", is desirous of acquiring said invention and said patent application.

NOW, THEREFORE, in consideration of the sum of One Dollar and other good and valuable executed consideration, the full receipt and sufficiency of all of which are hereby acknowledged, and intending to be legally bound hereby, I, the undersigned ASSIGNOR, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named ASSIGNEE, the whole and entire right, title and interest

in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-provisionals, divisions and continuations thereof, along with all rights of priority created by said patent application under any treaty relating thereto; and

in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and benefit, and for ASSIGNEE's legal representatives and assigns to the full end of the term or terms for which said patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNOR had this

assignment and sale not been made; and for the aforesaid consideration ASSIGNOR hereby covenants, agrees and undertakes to execute, whenever requested by the above-named ASSIGNEE, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNOR.

DAVID WHITE

STATE OF: Morracluutts

Notary Public

My Commission Expires: 9/1/2006

COUNTY OF: